


```
PPPPPPPP      AAAAAA      GGGGGGGG      MM      MM      RRRRRRRR      GGGGGGGG
PPPPPPPP      AAAAAA      GGGGGGGG      MM      MM      RRRRRRRR      GGGGGGGG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PP      PP      AA      AA      GG      MM      MM      RR      RR      GG
PPPPPPPP      AA      AA      GG      MM      MM      RRRRRRRR      GG
PPPPPPPP      AA      AA      GG      MM      MM      RRRRRRRR      GG
PP      AAAAAAAAAA      GG      GGGGGG      MM      MM      RR      RR      GG      GGGGGG
PP      AAAAAAAAAA      GG      GGGGGG      MM      MM      RR      RR      GG      GGGGGG
PP      AA      AA      GG      MM      MM      RR      RR      GG      GG
PP      AA      AA      GG      MM      MM      RR      RR      GG      GG
PP      AA      AA      GG      MM      MM      RR      RR      GG      GG
PP      AA      AA      GGGGGG      MM      MM      RR      RR      GGGGGG
PP      AA      AA      GGGGGG      MM      MM      RR      RR      GGGGGG
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```

```
0001 0 MODULE PAGMRG (IDENT = 'V04-000'
0002 0      %BLISS32[,ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE, NONEXTERNAL=LONG_RELATIVE)]
0003 0      ) =
0004 1 BEGIN
0005 1
0006 1 *****
0007 1 *
0008 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0009 1 *   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0010 1 *   ALL RIGHTS RESERVED.
0011 1 *
0012 1 *   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0013 1 *   ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0014 1 *   INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0015 1 *   COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0016 1 *   OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0017 1 *   TRANSFERRED.
0018 1 *
0019 1 *   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0020 1 *   AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0021 1 *   CORPORATION.
0022 1 *
0023 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0024 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY:
0032 1   DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility
0033 1
0034 1 ABSTRACT:   Compares page numbers to see if they can be merged.
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR:     R. W. Friday
0039 1
0040 1 CREATION DATE: May, 1979
0041 1
0042 1 MODIFIED BY:
0043 1   002      JPK00024      23-May-1983
0044 1   Modified lowercasing algorithm in PERMUTE. Now lowercase only
0045 1   if word contains only 1 letter or if second letter in word is
0046 1   lowercase. Picked up modules PAGMRG and POOL from DSR/DSRPLUS
0047 1   since they are no longer used by DSR/DSRPLUS.
0048 1
0049 1 --
0050 1
0051 1
0052 1 TABLE OF CONTENTS
0053 1
0054 1
0055 1 FORWARD ROUTINE
0056 1   PAGMRG;
0057 1
```



```

58 0058 1 |
59 0059 1 | INCLUDE FILES:
60 0060 1 |
61 0061 1 |
62 0062 1 | LIBRARY 'NXPORT:XPORT';
63 0063 1 |
64 0064 1 | REQUIRE 'REQ:PAGEN';
65 0145 1 |
66 0146 1 |
67 0147 1 | MACROS:
68 0148 1 |
69 0149 1 | EQUATED SYMBOLS:
70 0150 1 |
71 0151 1 |
72 0152 1 | LITERAL
73 0153 1 |   TRUE = 1
74 0154 1 |   FALSE = 0;
75 0155 1 |
76 0156 1 |
77 0157 1 | OWN STORAGE:
78 0158 1 |
79 0159 1 |
80 0160 1 | EXTERNAL REFERENCES:
81 0161 1 |
82 0162 1 |
83 0163 1 | EXTERNAL ROUTINE
84 0164 1 |   DSPEQL;

```

```

86 0165 1 %SBTTL 'PAGMRG -- Compare two page entries to see if they can be merged'
87 0166 1 GLOBAL ROUTINE PAGMRG (ENTRY1, ENTRY2) =
88 0167 1
89 0168 1
90 0169 1
91 0170 1
92 0171 1
93 0172 1
94 0173 1
95 0174 1
96 0175 1
97 0176 1
98 0177 1
99 0178 1
100 0179 1
101 0180 1
102 0181 1
103 0182 1
104 0183 1
105 0184 1
106 0185 1
107 0186 1
108 0187 1
109 0188 1
110 0189 1
111 0190 1
112 0191 1
113 0192 1
114 0193 1
115 0194 1
116 0195 1
117 0196 1
118 0197 2
119 0198 2
120 0199 2
121 0200 2
122 0201 2
123 0202 2
124 0203 2
125 0204 2
126 0205 2
127 0206 2
128 0207 2
129 0208 2
130 0209 2
131 0210 2
132 0211 2
133 0212 2
134 0213 2
135 0214 2
136 0215 2
137 0216 2
138 0217 2
139 0218 2
140 0219 2
141 0220 2
142 0221 2

++
FUNCTIONAL DESCRIPTION:
    Compare two page numbers to see if they are adjacent pages.

FORMAL PARAMETERS:
    ENTRY1 and ENTRY2 are the page numbers to be compared.

IMPLICIT INPUTS:
    NONE

IMPLICIT OUTPUTS:
    NONE

ROUTINE VALUE:
COMPLETION CODES:
    TRUE      - Specified page numbers are adjacent
    FALSE     - Specified page numbers are not adjacent

SIDE EFFECTS:
    NONE

--
BEGIN
MAP
    ENTRY1 : REF PAGE_DEFINITION,
    ENTRY2 : REF PAGE_DEFINITION;

    Both entries must exist
    IF (.ENTRY1 EQL 0) OR (.ENTRY2 EQL 0) THEN RETURN FALSE;

    By definition, you can't merge page numbers if
    their display characteristics are different. Test for this.
    IF NOT DSPEQL (.ENTRY1, .ENTRY2) THEN RETURN FALSE;

    Section type must match
    IF .ENTRY1 [SCT_TYP] NEQ .ENTRY2 [SCT_TYP] THEN RETURN FALSE;

    Section number must always match
```

```

143 0222 2 IF .ENTRY1 [SCT_NUMBER] NEQ .ENTRY2 [SCT_NUMBER] THEN RETURN FALSE;
144 0223 2
145 0224 2
146 0225 2 If sub-page exists, the page number must match and the sub-pages
147 0226 2 must differ only by 1
148 0227 2
149 0228 2 IF .ENTRY1 [SCT_SUB_PAGE] NEQ 0
150 0229 2 THEN
151 0230 2 BEGIN
152 0231 2
153 0232 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
154 0233 2
155 0234 2 IF (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE] - 1)
156 0235 2 AND (.ENTRY1 [SCT_SUB_PAGE] NEQ .ENTRY2 [SCT_SUB_PAGE])
157 0236 2 THEN
158 0237 2 RETURN FALSE;
159 0238 2
160 0239 2 RETURN TRUE
161 0240 2 END;
162 0241 2
163 0242 2
164 0243 2 If all else is OK, page numbers can differ only by 0 or 1
165 0244 2
166 0245 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] - 1
167 0246 2 THEN
168 0247 2 BEGIN
169 0248 2
170 0249 2 IF .ENTRY1 [SCT_PAGE] NEQ .ENTRY2 [SCT_PAGE] THEN RETURN FALSE;
171 0250 2 END;
172 0251 2
173 0252 2 RETURN TRUE;
174 0253 1 END;

```

!End of PAGMRG

.TITLE PAGMRG
.IDENT \V04-000\

.EXTRN DSPEQL

.PSECT \$CODE\$,NOWRT,2

```

52 04 AC D0 00002
5C 13 00006
08 AC D5 00008
57 13 0000B
53 08 AC D0 0000D
0C BB 00011
00000000G EF 02 FB 00013
47 50 E9 0001A
63 62 8D 0001D
OF 50 93 00021
3E 12 00024
04 A3 04 A2 D1 00026
37 12 0002B
02 A2 B5 0002D
1C 13 00030

```

```

.ENTRY PAGMRG, Save R2,R3
MOVL ENTRY1, R2
BEQL 4$
TSTL ENTRY2
BEQL 4$
MOVL ENTRY2, R3
PUSHR #M<R2,R3>
CALLS #2, DSPEQL
BLBC R0, 4$
XORB3 (R2), (R3), R0
BITB R0, #15
BNEQ 4$
CMPL 4(R2), 4(R3)
BNEQ 4$
TSTW 2(R2)
BEQL 1$

```

```

0166
0206
0212
0217
0222
0228

```


PAGMRG
V04-000

PAGMRG -- Compare two page entries to see if th

E 3
16-Sep-1984 01:26:01
14-Sep-1984 13:07:42

VAX-11 Bliss-32 V4.0-742
[RUNOFF.SRC]PAGMRG.BLI;1

Page 5
(2)

	08	A3	08	A2	D1	00032	CMPL	8(R2), 8(R3)	0232
				2B	12	00037	BNEQ	4\$	
	50		02	A3	3C	00039	MOVZWL	2(R3), R0	0234
50				50	D7	0003D	DECL	R0	
	02	A2		10	00	ED 0003F	CMPZV	#0, #16, 2(R2), R0	
				19	13	00045	BEQL	3\$	
	02	A3	02	A2	B1	00047	CMPW	2(R2), 2(R3)	0235
				10	11	0004C	BRB	2\$	
	50			01	C3	0004E	SUBL3	#1, 8(R3), R0	0245
				08	A2	D1 00053	CMPL	8(R2), R0	
				07	13	00057	BEQL	3\$	
	08	A3	08	A2	D1	00059	CMPL	8(R2), 8(R3)	0249
				04	12	0005E	BNEQ	4\$	
	50			01	D0	00060	MOVL	#1, R0	0252
					04	00063	RET		
				50	D4	00064	CLRL	R0	0253
					04	00066	RET		

; Routine Size: 103 bytes, Routine Base: \$CODE\$ + 0000

175	0254	1	
176	0255	1	END
177	0256	0	ELUDOM

!End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	103	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_ \$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:PAGMRG/OBJ=OBJ\$:PAGMRG MSRC\$:PAGMRG/UPDATE=(ENH\$:PAGMRG)

; Size: 103 code + 0 data bytes

PAGMRG
V04-000

PAGMRG -- Compare two page entries to see if th

F³
16-Sep-1984 01:26:01

VAX-11 Bliss-32 V4.0-742

Page 6

: Run Time: 00:03.6
: Elapsed Time: 00:10.7
: Lines/CPU Min: 4290
: Lexemes/CPU-Min: 17145
: Memory Used: 50 pages
: Compilation Complete

0347 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY